

=> s us6710043/pn
L1 1 US6710043/PN

=> analyze l1
ENTER ANSWER NUMBER OR RANGE (1-):1
ENTER DISPLAY CODE (TI) OR ?:rn
L2 ANALYZE L1 1 RN : 57 TERMS

=> fil reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 12.84 13.05

FILE 'REGISTRY' ENTERED AT 15:38:27 ON 10 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAY 2005 HIGHEST RN 850130-09-5
DICTIONARY FILE UPDATES: 9 MAY 2005 HIGHEST RN 850130-09-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s l2
L3 57 L2

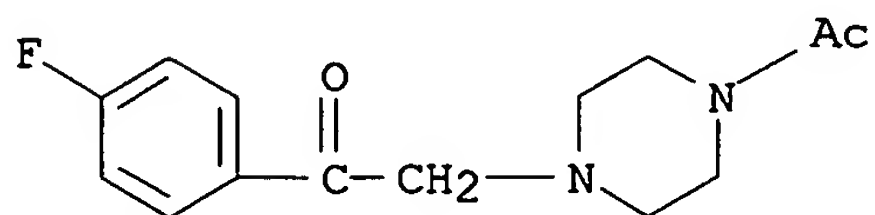
=> s l3
L4 57 L2

=> s l4 and piperazin?
576449 PIPERAZIN?
L5 11 L4 AND PIPERAZIN?

=> d 1-11

L5 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 283167-27-1 REGISTRY

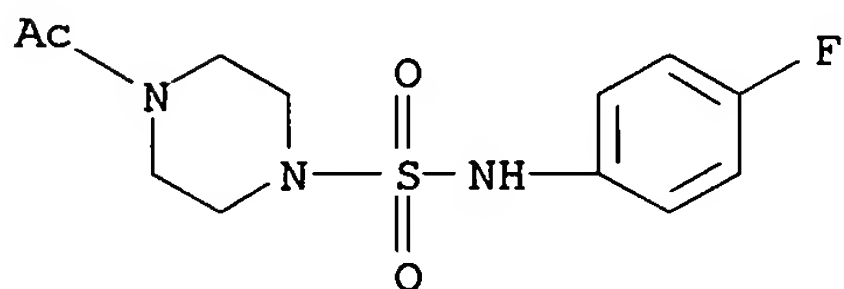
ED Entered STN: 04 Aug 2000
 CN **Piperazine, 1-acetyl-4-[2-(4-fluorophenyl)-2-oxoethyl]-, monohydrochloride (9CI)** (CA INDEX NAME)
 MF C14 H17 F N2 O2 . Cl H
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 CRN (749837-14-7)



● HCl

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

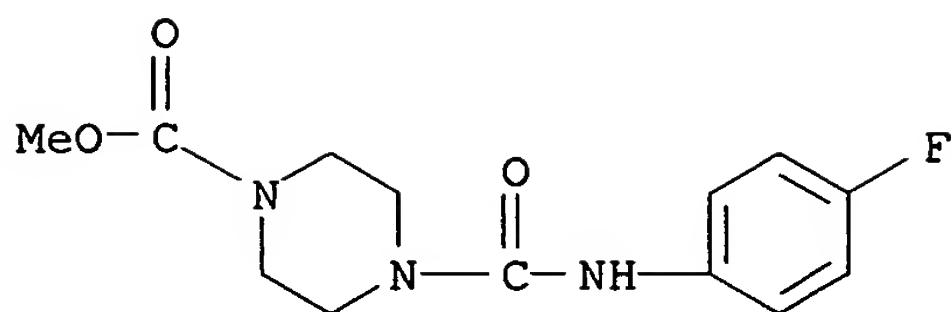
L5 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
 RN **283167-23-7** REGISTRY
 ED Entered STN: 04 Aug 2000
 CN **1-Piperazinesulfonamide, 4-acetyl-N-(4-fluorophenyl)- (9CI)** (CA INDEX NAME)
 FS 3D CONCORD
 MF C12 H16 F N3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

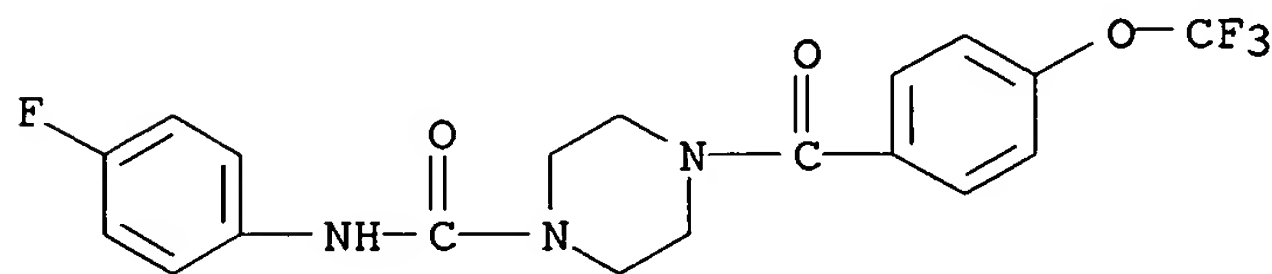
L5 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
 RN **283167-21-5** REGISTRY
 ED Entered STN: 04 Aug 2000
 CN **1-Piperazinecarboxylic acid, 4-[[4-(4-fluorophenyl)amino]carbonyl]-, methyl ester (9CI)** (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H16 F N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

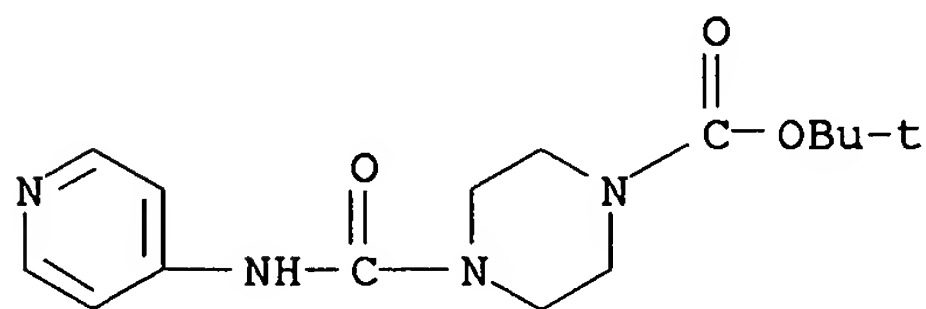
L5 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN **283167-20-4** REGISTRY
ED Entered STN: 04 Aug 2000
CN **1-Piperazinecarboxamide, N-(4-fluorophenyl)-4-[4-(trifluoromethoxy)benzoyl]- (9CI)** (CA INDEX NAME)
FS 3D CONCORD
MF C19 H17 F4 N3 O3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

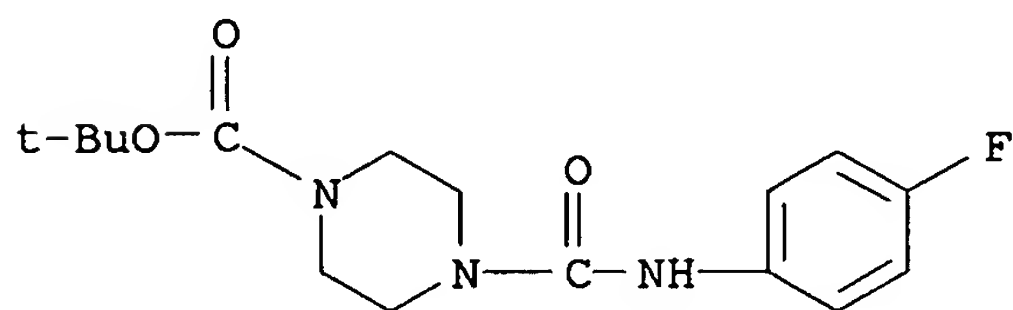
L5 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN **283167-04-4** REGISTRY
ED Entered STN: 04 Aug 2000
CN **1-Piperazinecarboxylic acid, 4-[(4-pyridinylamino)carbonyl]-, 1,1-dimethylethyl ester (9CI)** (CA INDEX NAME)
FS 3D CONCORD
MF C15 H22 N4 O3
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

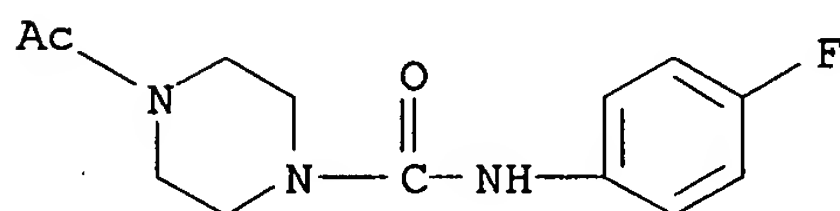
L5 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 283167-03-3 REGISTRY
 ED Entered STN: 04 Aug 2000
 CN 1-Piperazinecarboxylic acid, 4-[[(4-fluorophenyl) amino] carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H22 F N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

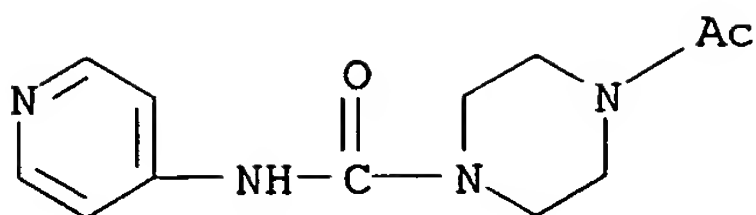
L5 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 283167-02-2 REGISTRY
 ED Entered STN: 04 Aug 2000
 CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H16 F N3 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

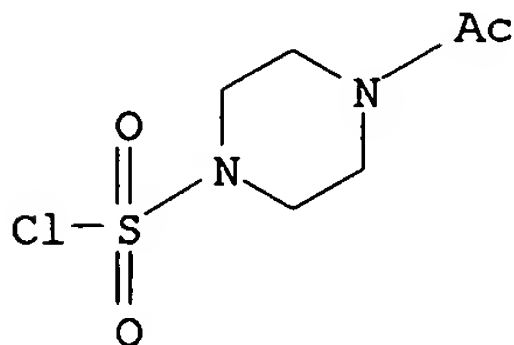
L5 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 283167-01-1 REGISTRY
 ED Entered STN: 04 Aug 2000
 CN 1-Piperazinecarboxamide, 4-acetyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C12 H16 N4 O2
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 274686-11-2 REGISTRY
ED Entered STN: 05 Jul 2000
CN 1-Piperazinesulfonyl chloride, 4-acetyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-Acetyl-4-piperazinesulfonyl chloride
FS 3D CONCORD
MF C6 H11 Cl N2 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



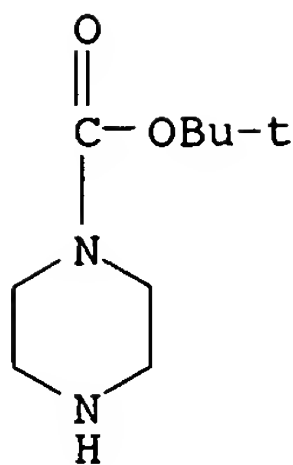
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
RN 57260-71-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Piperazinecarboxylic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1-Dimethylethyl 1-piperazinecarboxylate
CN 1,1-Dimethylethyl piperazin-1-carboxylate
CN 1-(tert-Butoxycarbonyl)piperazine
CN 1-(tert-Butyloxycarbonyl)piperazine
CN 1-Piperazinecarboxylic acid tert-butyl ester
CN 1-[(1,1-Dimethylethoxy)carbonyl]piperazine
CN 4-(tert-Butyloxycarbonyl)piperazine
CN N-(tert-Butoxycarbonyl)piperazine
CN N-BOC-Piperazine
CN N-tert-Butyloxycarbonylpiperazine
CN tert-Butyl 1-piperazinecarboxylate
FS 3D CONCORD
DR 131339-76-9
MF C9 H18 N2 O2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CSChem, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, SYNTHLINE, TOXCENTER, USPAT2,

USPATFULL

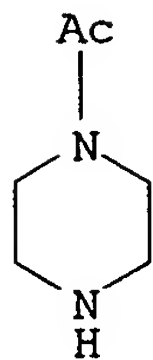
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1190 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1192 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 13889-98-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Piperazine, 1-acetyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 1-(Piperazin-1-yl)ethanone
 CN 1-(Piperazinyl)ethanone
 CN 1-Acetylpiperazine
 CN 4-Acetylpiperazine
 CN N-Acetylpiperazin
 CN N-Acetylpiperazine
 CN NSC 39649
 FS 3D CONCORD
 MF C6 H12 N2 O
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHM, IFICDB, IFIPAT, IFIUDB, SYNTHLINE,
 TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

399 REFERENCES IN FILE CA (1907 TO DATE)
 401 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s 13889-98-0 or 57260-71-6 or 274686-11-2
1 13889-98-0
(13889-98-0/RN)
1 57260-71-6
(57260-71-6/RN)
1 274686-11-2
(274686-11-2/RN)
L6 3 13889-98-0 OR 57260-71-6 OR 274686-11-2

=> d his

(FILE 'HOME' ENTERED AT 15:38:02 ON 10 MAY 2005)

FILE 'CAPLUS' ENTERED AT 15:38:08 ON 10 MAY 2005

L1 1 S US6710043/PN
L2 ANALYZE L1 1 RN : 57 TERMS

FILE 'REGISTRY' ENTERED AT 15:38:27 ON 10 MAY 2005

L3 57 S L2
L4 57 S L3
L5 11 S L4 AND PIPERAZIN?
L6 3 S 13889-98-0 OR 57260-71-6 OR 274686-11-2

=> s l5 not l6
L7 8 L5 NOT L6

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.56	39.61

FILE 'CAPLUS' ENTERED AT 15:40:53 ON 10 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 10 May 2005 VOL 142 ISS 20
FILE LAST UPDATED: 9 May 2005 (20050509/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 2 L7

=> d bib abs hitstr 1-2

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:861479 CAPLUS
 DN 134:29431
 TI Agent for expression of long-term potentiation of synaptic transmission comprising compound having brain somatostatin activation property
 IN Matsuoka, Nobuya; Satoh, Masamichi
 PA Fujisawa Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 74 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000072834	A2	20001207	WO 2000-JP3334	20000524
	WO 2000072834	A3	20020711		
	W: BR, CA, CN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6344358	B1	20020205	US 1999-321745	19990528
	EP 1235575	A2	20020904	EP 2000-929854	20000524
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	JP 2003522120	T2	20030722	JP 2000-620946	20000524
	US 2002090732	A1	20020711	US 2002-41592	20020110
	US 6613572	B2	20030902		
PRAI	US 1999-321745	A	19990528		
	WO 2000-JP3334	W	20000524		

OS MARPAT 134:29431

AB The present invention relates to an agent for the expression of long-term potentiation of synaptic transmission, which contains a compound having a brain somatostatin activation property as an active ingredient and to a screening method of an agent for the expression of long-term potentiation of synaptic transmission, which uses a somatostatin releasing property as an index. E.g., to a solution of O-Ph N-(4-pyridyl)carbamate in 1,2-dichloroethane was added a suspension of 1-acetylpiperazine to give 1-acetyl-4-(4-pyridylaminocarbonyl)piperazine.

IT 283167-01-1P 283167-02-2P 283167-03-3P

283167-04-4P 283167-20-4P 283167-21-5P

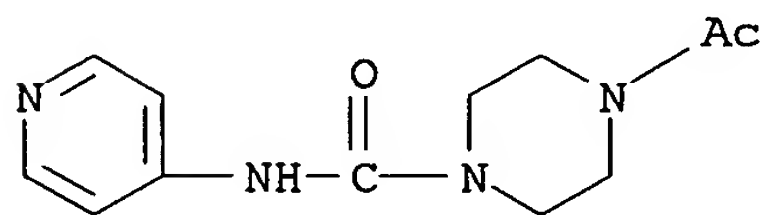
283167-23-7P 283167-27-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of agents for expression of long-term potentiation of synaptic transmission)

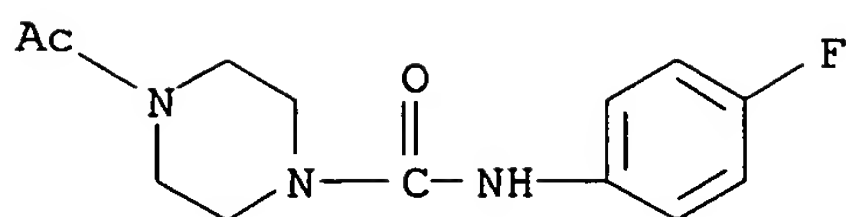
RN 283167-01-1 CAPLUS

CN 1-Piperazinecarboxamide, 4-acetyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)



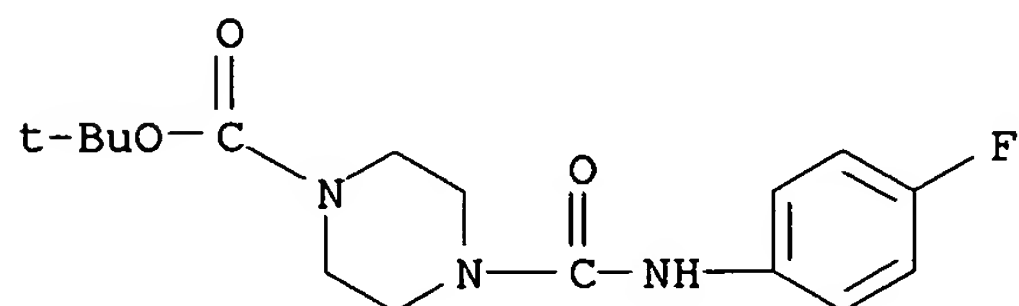
RN 283167-02-2 CAPLUS

CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



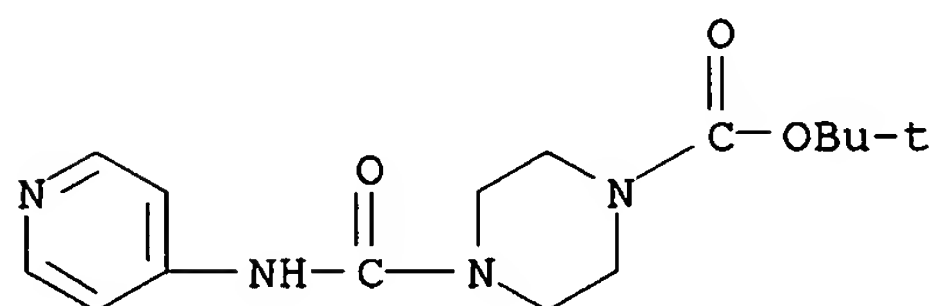
RN 283167-03-3 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[(4-fluorophenyl)amino]carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



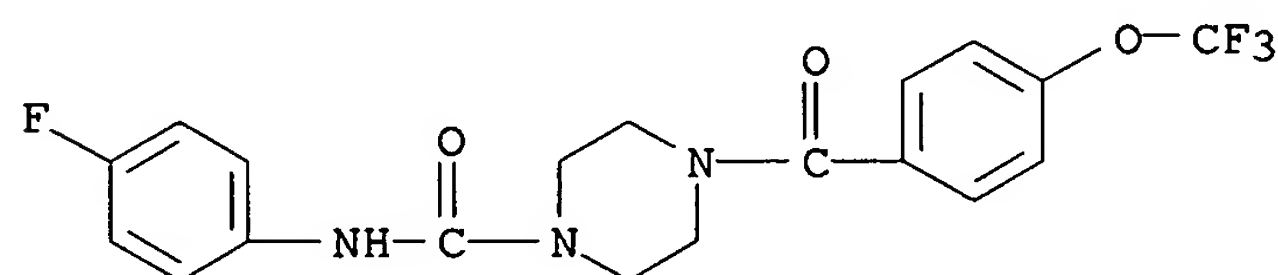
RN 283167-04-4 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[(4-pyridinylamino)carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



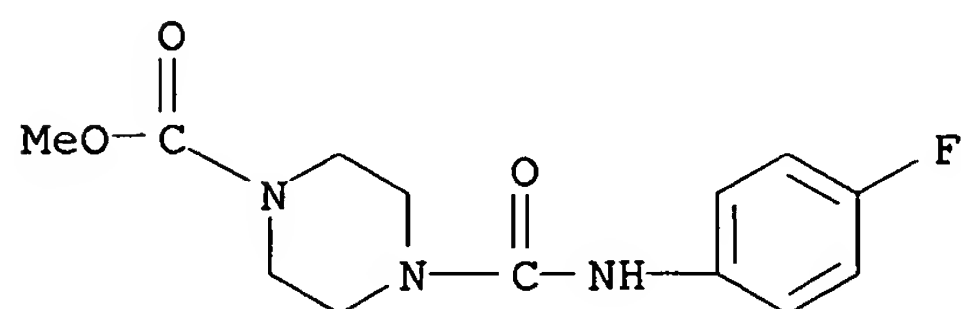
RN 283167-20-4 CAPLUS

CN 1-Piperazinecarboxamide, N-(4-fluorophenyl)-4-[4-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



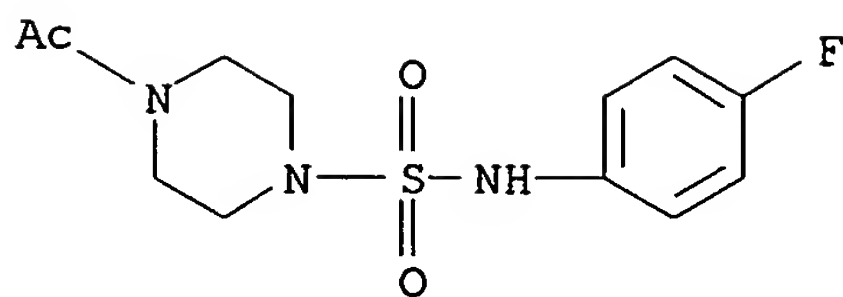
RN 283167-21-5 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[[(4-fluorophenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

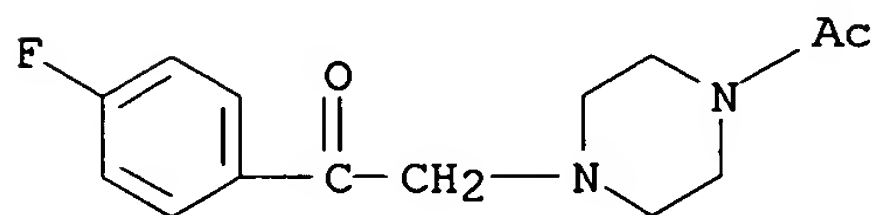


RN 283167-23-7 CAPLUS

CN 1-Piperazinesulfonamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 283167-27-1 CAPLUS
 CN Piperazine, 1-acetyl-4-[2-(4-fluorophenyl)-2-oxoethyl]-, monohydrochloride
 (9CI) (CA INDEX NAME)

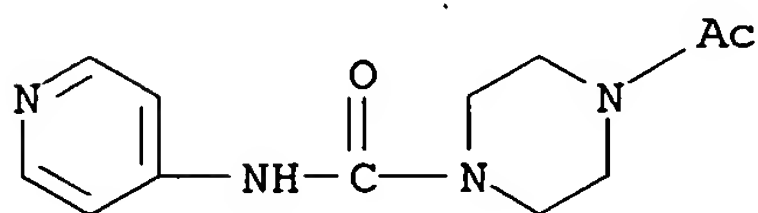


● HCl

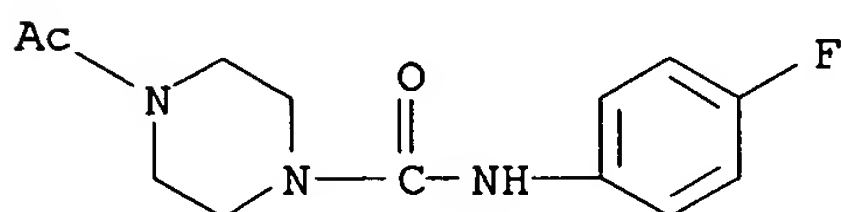
L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:493515 CAPLUS
 DN 133:105053
 TI Preparation of acylpiperazines, acylpiperidines, and related compounds as
 cholinergic agonists.
 IN Yamada, Akira; Aoki, Satoshi
 PA Fujisawa Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000042011	A1	20000720	WO 2000-JP17	20000106
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2360360	AA	20000720	CA 2000-2360360	20000106
	EP 1140836	A1	20011010	EP 2000-900121	20000106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 2000008753	A	20011106	BR 2000-8753	20000106
	TR 200102038	T2	20020121	TR 2001-200102038	20000106
	JP 2002534503	T2	20021015	JP 2000-593579	20000106
	JP 3617454	B2	20050202		
	AU 760434	B2	20030515	AU 2000-18904	20000106
	AU 2000018904	A5	20000801		
	RU 2208608	C2	20030720	RU 2001-122727	20000106
	ZA 2001004713	A	20020909	ZA 2001-4713	20010608
	US 6710043	B1	20040323	US 2001-869962	20010710

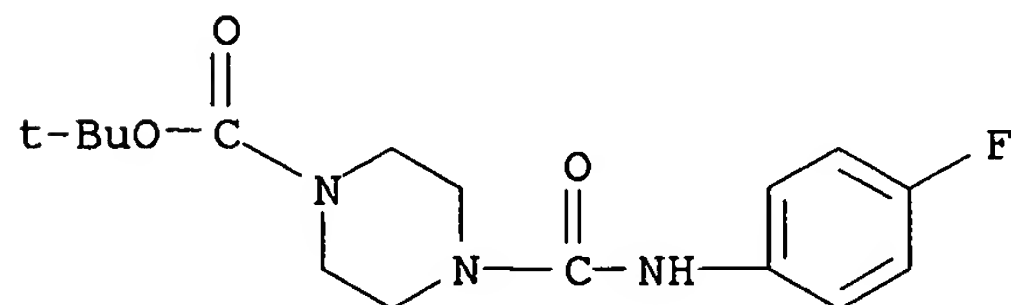
	HK 1044337	A1	20041126	HK 2002-105923	20020813
	JP 2004002414	A2	20040108	JP 2003-132491	20030512
	US 2004014745	A1	20040122	US 2003-618743	20030715
PRAI	AU 1999-8180	A	19990114		
	JP 2000-593579	A3	20000106		
	WO 2000-JP17	W	20000106		
	US 2001-869962	A3	20010710		
OS	MARPAT 133:105053				
AB	R1ANR3EXR4YQR2 [R1 = acyl; R2 = (substituted) alkyl, alkoxy, alkylamino, alkenyl, alkenyloxy, alkenylamino, cycloalkyl, aryl, aryloxy, arylamino, heterocyclyl, acyl, etc.;, A = bond, CO, SO2; E = (substituted) alkylene; X = CH, N; Y = bond, alkylene, imino; Q =CH2, CO, SO2, N:CH; R3, R4 = H, alkyl; R3R4 = alkylene optionally condensed with cyclic hydrocarbyl or heterocyclyl], were prepared Thus, 1-acetylpiperazine in THF was treated with 4-fluorophenyl isocyanate followed by stirring for 1 h to give 1-acetyl-4-(4-fluorophenylcarbamoyl)piperazine. The latter at 1 mg/kg i.p. in rats gave 1.14 penile erections/h.				
IT	283167-01-1P 283167-02-2P 283167-03-3P 283167-04-4P 283167-20-4P 283167-21-5P 283167-23-7P 283167-27-1P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of acylpiperazines, acylpiperidines, and related compds. as cholinergic agonists)				
RN	283167-01-1 CAPLUS				
CN	1-Piperazinecarboxamide, 4-acetyl-N-4-pyridinyl- (9CI) (CA INDEX NAME)				



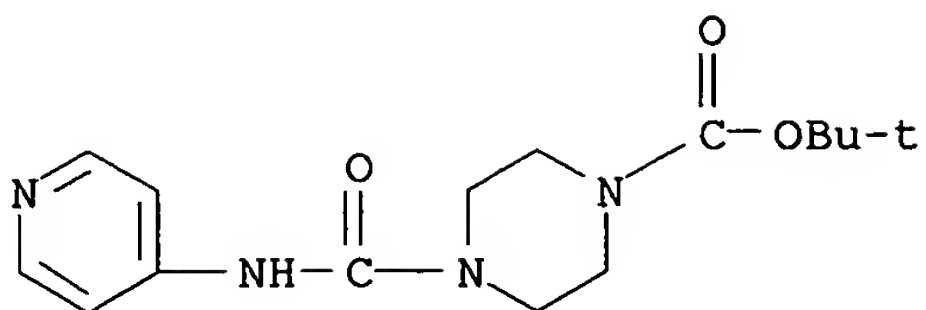
RN 283167-02-2 CAPLUS
CN 1-Piperazinecarboxamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



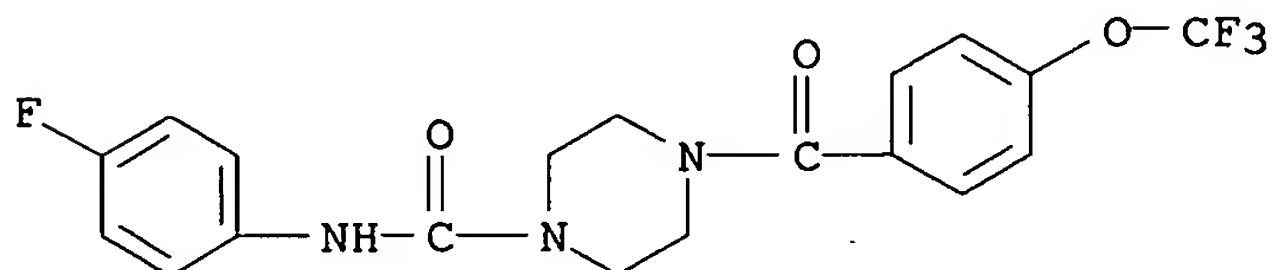
RN 283167-03-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[(4-fluorophenyl)amino]carbonyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



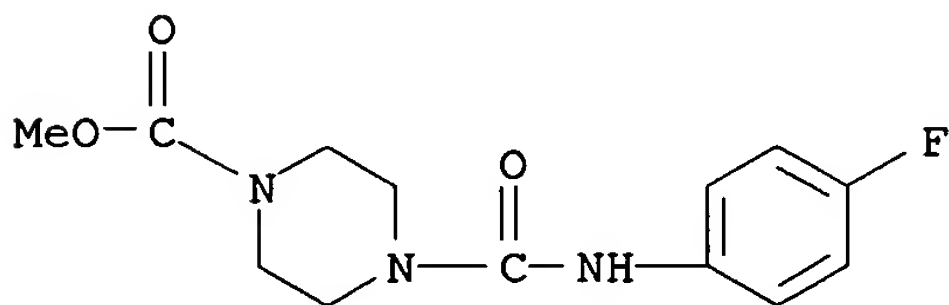
RN 283167-04-4 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[(4-pyridinylamino)carbonyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



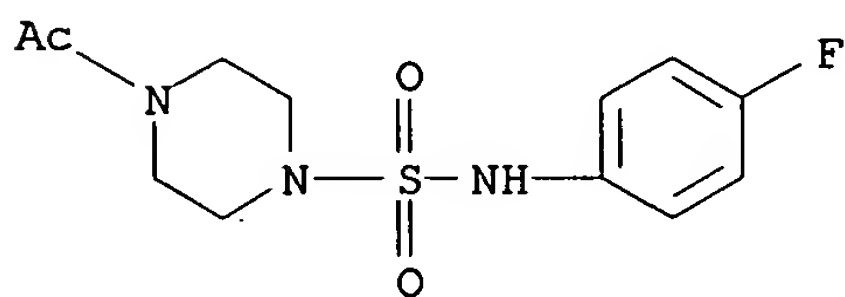
RN 283167-20-4 CAPLUS
 CN 1-Piperazinecarboxamide, N-(4-fluorophenyl)-4-[4-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



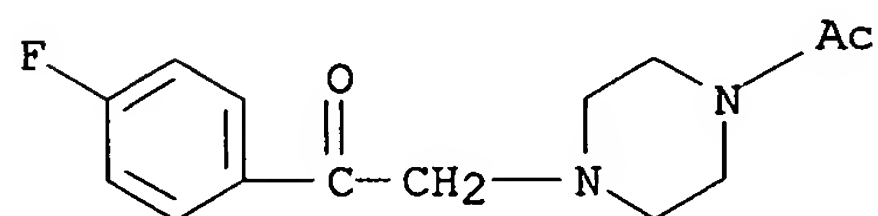
RN 283167-21-5 CAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[[(4-fluorophenyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 283167-23-7 CAPLUS
 CN 1-Piperazinesulfonamide, 4-acetyl-N-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 283167-27-1 CAPLUS
 CN Piperazine, 1-acetyl-4-[2-(4-fluorophenyl)-2-oxoethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RE.CNT 25

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT